

# **APPARATUS FOR INHIBITING RING BACK EFFECT OF CIRCUIT AND METHOD THEREOF**

## **Abstract**

The apparatus for inhibiting the ring back effect of a circuit comprises a first differential current mode pair and a second differential current mode pair. The first differential current mode pair outputs a first current and a second current through the controlling of a first control signal. The second differential current mode pair outputs a third current and a fourth current through the controlling of a second control signal. The second control signal is the delayed first control signal. The first current and the third current are combined to be the first output current signal, while the second current and the fourth current are combined to be the second output current signal. The magnitude and time delay of the third and fourth currents are designed to compensate the first and second currents respectively so as to inhibit the ring back effect.